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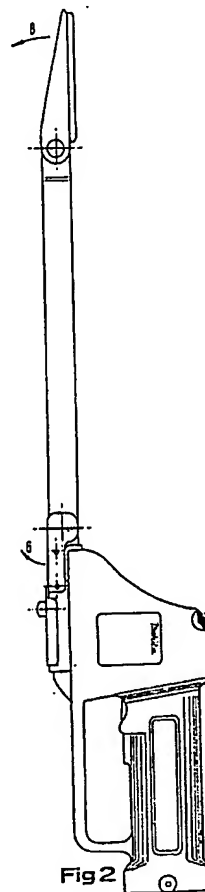
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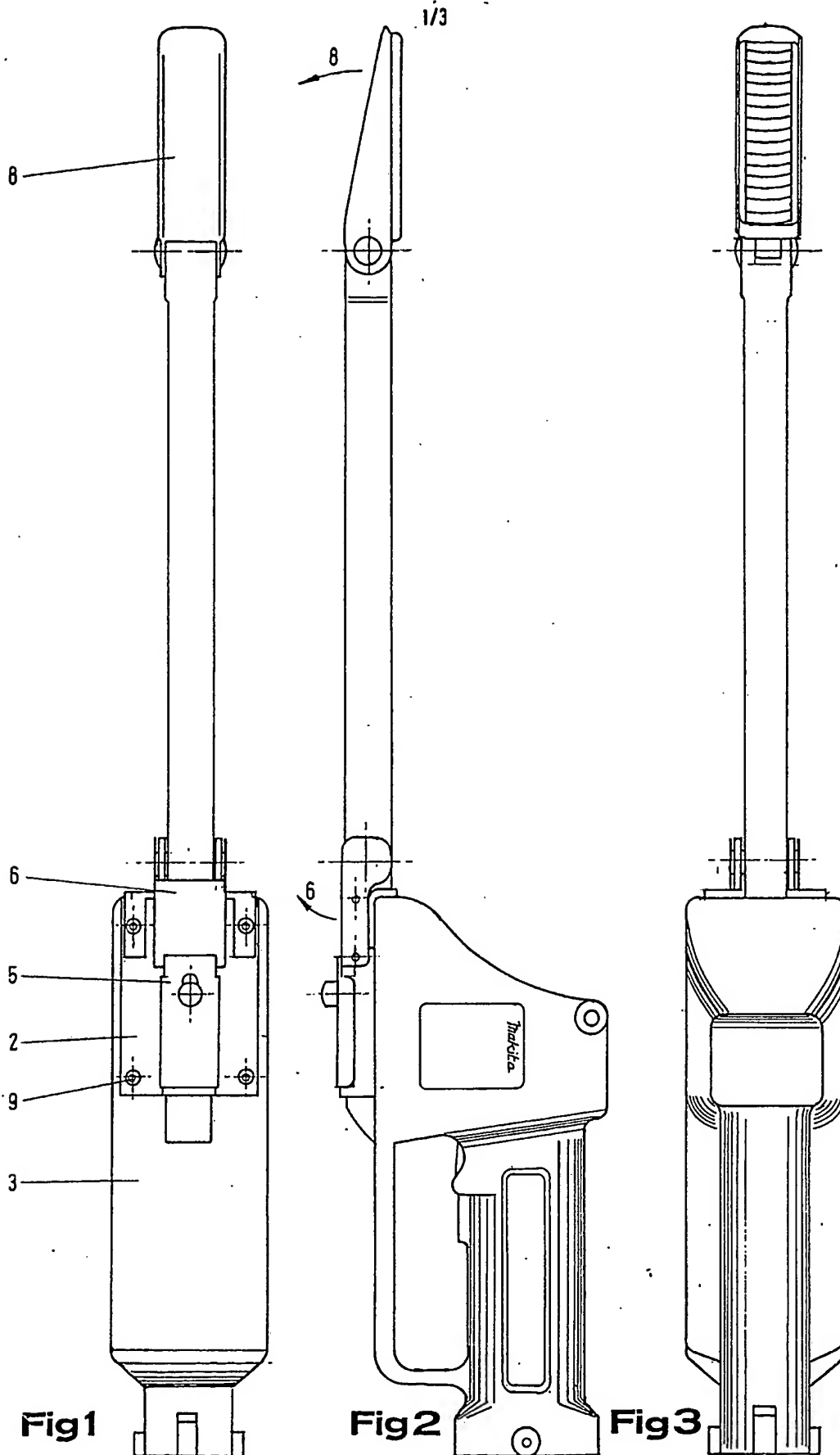
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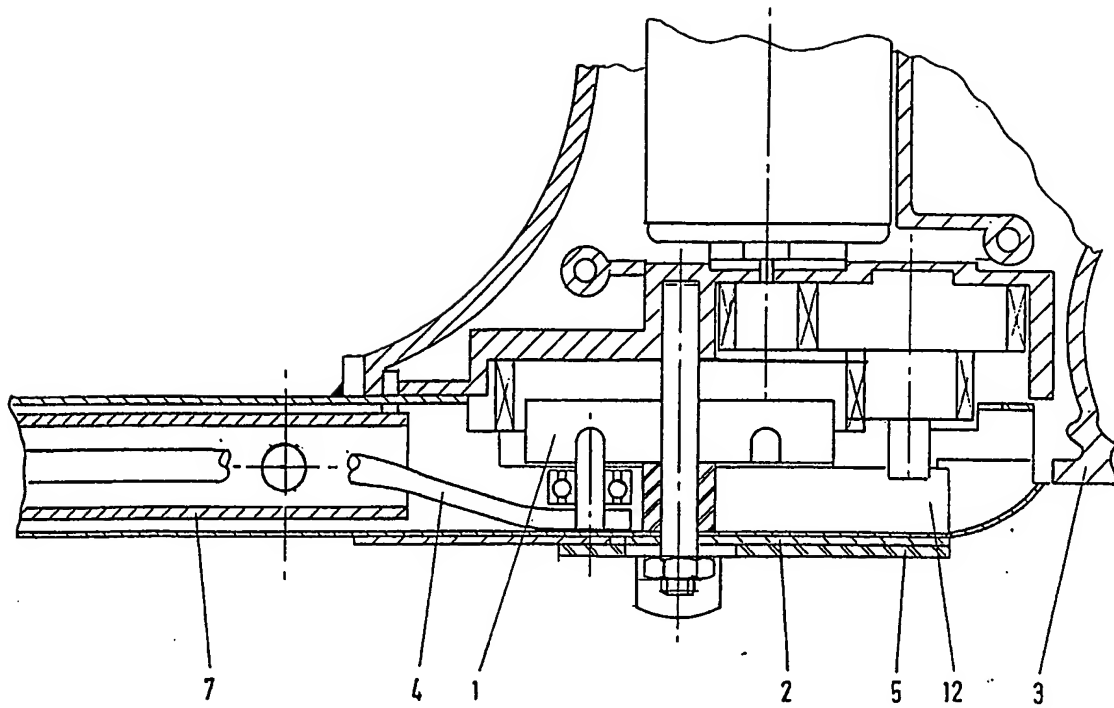
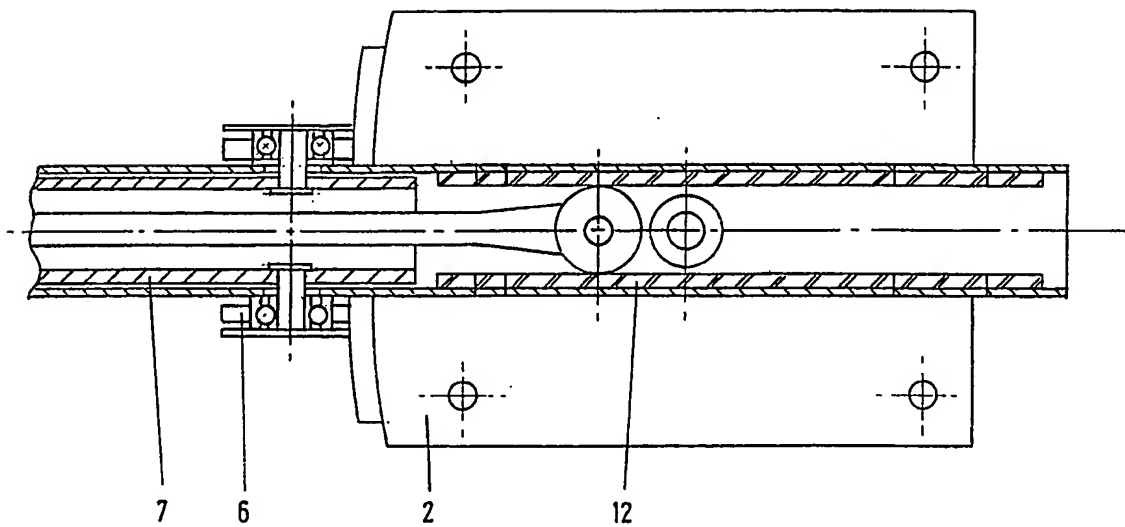
(54) **Motorised cordless horses' tooth rasp**

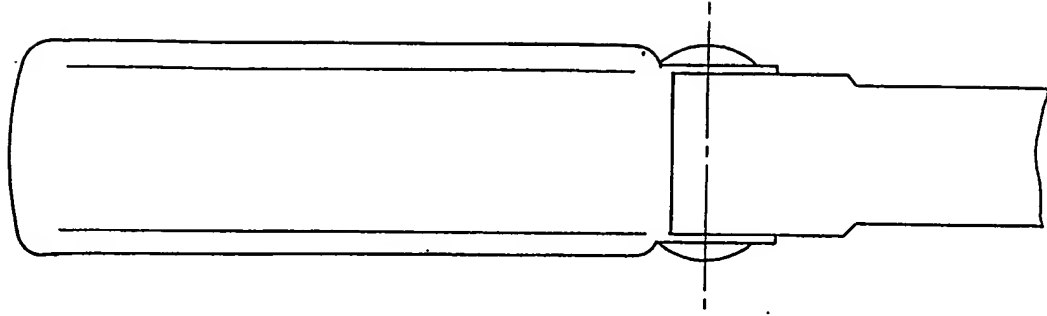
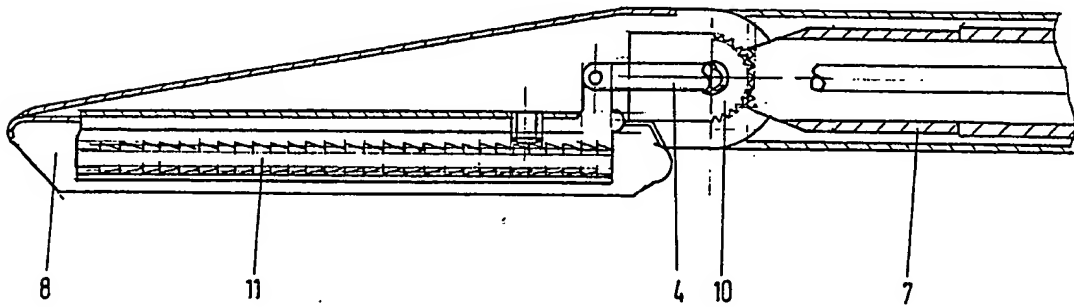
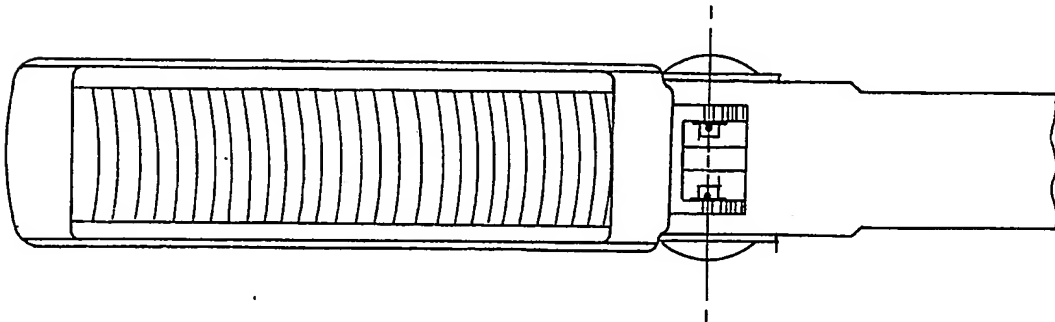
(57) A horses' tooth rasp replaces the old method of hand filing deposits of scale found on the teeth of horses. The rasp being cordless allows this work to be carried out without a power supply. The reciprocating rasp 11 is mounted to an adjustable head 8 and can be locked to the desired position by means of a cam actuated lock 6. The reciprocating rasp 11 is powered by a modified Makita cordless hedge trimmer 3, the drive passes from a rotating cam 1, through a drive rod 4, to the rasp 11 mounted in the adjustable head.



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**Fig 4****Fig 5**

**Fig 6****Fig 7****Fig 8**

SPECIFICATION

Motorised cordless horses tooth rasp

5 This invention relates to a motorised cordless horses tooth rasp.

A problem often associated with horses is a build up of scale on the teeth at the back of the mouth. If this occurs, the method used at present for the removal of the scale is a hand file.

Hand filing can be both painful for the horse and difficult for the veterinary surgeon to perform.

According to the present invention there is provided a reciprocating rasp mounted to an adjustable head. The angle of the head is adjustable and can be locked to the desired position by means of a cam actuated lock. The reciprocating rasp is powered by a modified Makita cordless hedge trimmer, the drive passes from a rotating cam through a drive rod to the rasp mounted in the adjustable head.

Figure 1 shows a view on the underside of the horses tooth rasp;

Figure 2 shows a side view of the horses tooth rasp;

25 *Figure 3* shows a view on the top of the horses tooth rasp;

Figure 4 shows a section through the gearbox drive to the rotating cam and drive rod;

30 *Figure 5* shows a view on the attachment when removed from the Makita unit, and shows the drive rod and locking cam arrangement;

Figure 6 shows a view on the underside of the adjustable head;

35 *Figure 7* shows a section through the adjustable head, illustrating the drive rod, reciprocating rasp and the locking action of the toothed tube when pushed by the cam on to the gear of the adjustable head;

40 *Figure 8* shows a view on the top of the adjustable head.

Referring to the drawings the motorised cordless horses' tooth rasp comprises a suitably modified Matika cordless hedge trimmer 3, to which is mounted by means of four screws 9, through the mounting plate 2, the reciprocating horses' tooth rasp.

In order to provide a drive for the reciprocating rasp, the rotating eccentric cam 1 moves the drive rod 4 backwards and forwards within its guides 12.

In order to adjust the angle of the head 8, locking plate 5 slides back to allow cam arm and cover 6 to rotate, thus releasing the toothed tube 7 and disengaging the teeth 10, allowing the head 8 to be adjusted to the required angle. The cam 6 is then returned to its original position, thus engaging the teeth 10 and toothed tube 7 and locking the head in the required position. The cam is then held in its locked position by sliding locking plate 5 back.

CLAIMS

60 1. A motorised cordless horses tooth rasp comprising a reciprocating rasp mounted to an adjustable head. The angle of the head is adjustable and can be locked to the desired position by means of a
65 cam actuated lock. The reciprocating rasp is powered

by a modified Makita cordless hedge trimmer, the drive passes from a rotating cam through a drive rod to the file mounted in the adjustable head.

2. A motorised cordless horses tooth rasp as claimed in claim 1 wherein the angle of the adjustable head can be varied and locked to the desired position by means of the cam, gear and toothed tube.

3. A reciprocating rasp substantially described herein with reference to figures 1 - 8 of the accompanying drawings.

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